

We claim:

1. A computer implemented method for translating text on a slide presentation from a first language to a second language comprising the steps of:

creating a text file, the text file having a format that can enable text be translated

5 from one language to a second language using conventional file translation techniques;

inserting text from an original presentation slide into the created text file;

translating the text inserted into the text file from a first language to a second language; and

10 writing the translated text onto the original presentation slide, in the location of the original text that was translated, using information contained in the original presentation slide.

15 2. The method as described in claim 1 wherein said addressing information related to the configuration of the objects contained in the original presentation slide is inserted into the created text file, at a location transparent to a user.

3. The method as described in claim 1 further comprising before said file creation step, the steps of:

obtaining the original presentation slide for which translation is desired;

20 obtaining the translation language for the presentation slide; and

retrieving the text to be translated from the original presentation slide.

25 4. The method as described in claim 3 wherein said text retrieving step comprises reading the text from the original presentation slide.

5. The method as described in claim 3 wherein said text retrieving step comprises copying the text from the original presentation slide.

30 6. The method as described in claim 2 wherein the addressing information is extracted from the original presentation slide.

7. The method as described in claim 3 wherein said text retrieving step comprises:  
searching the slide presentation for objects;  
determining whether a found object is a text object; and  
exporting the text from the found text object and the found object's addressing  
5 information to the created text file.

8. The method as described in claim 7 further comprising the steps of:  
determining whether the found object is a group;  
searching each sub-object in a determined group for text;  
10 exporting the text from each sub-object found in the group; and  
repeating said searching and exporting steps for each sub-object determined to be  
in the determined group.

9. The method as described in claim 7 wherein a slide is searched until the lowest  
15 level object on that slide is detected.

10. The method as described in claim 2 wherein said translated presentation slide  
writing step comprises:

creating a copy of the original presentation slide;  
20 retrieving the translated text information from the new text file;  
retrieving other slide presentation information from the original presentation  
slide; and

inserting the translated text information and the other presentation slide  
information onto the created copy of the original presentation slide such that the inserted  
25 information appears in the copy of the original slide in the same configuration as in the  
original presentation slide.

11. The method as described in claim 10 wherein said insertion step comprises  
inserting and positioning said translated text and other original presentation information  
30 in the copy of the original presentation slide according to the addressing information for  
the original slide.

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12. The method as described in claim 1 wherein the addressing information contained in the text file is not translated from the first language to the second language.

5 13. The method as described in claim 1 further comprising the steps of:  
creating a specific identification for the new translated presentation slide;  
attaching a link from the new translated slide to the original presentation slide;  
and  
storing the translated presentation slide in a translated slide database for the  
10 second language.

14. The method as described in claim 13 further comprising before said new text file creation step, the step of examining links of an original presentation slide to determine if a translated slide for the particular language currently exists and retrieving an existing  
15 translated slide.

15. A computer implemented method for translating text on a presentation slide from a first language to a second language comprising the steps of:  
creating a copy of an original presentation slide;  
20 creating a text file, the text file having a format that can enable text be translated from one language to a second language using conventional file translation techniques;  
inserting text from the copy of an original presentation slide into the created text file;  
translating the text inserted into the text file from a first language to a second  
25 language; and  
writing the translated text onto the created copy of the original presentation slide, in the location of the original text that was translated, using information contained in the original presentation slide.

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16. The method as described in claim 15 further comprising before said file creation step, the steps of:

obtaining the original presentation slide for which translation is desired;

obtaining the translation language for the presentation slide; and

5 retrieving the text to be translated from the original presentation slide.

17. The method as described in claim 15 wherein said translated presentation slide writing step comprises:

retrieving the translated text information from the new text file; and

10 inserting the translated text information onto the created copy of the original presentation slide such that the inserted information appears in the copy of the original slide in the same configuration as in the original presentation slide.

18. The method as described in claim 15 further comprising the steps of:

15 creating a specific identification for the new translated presentation slide;

attaching a link from the new translated slide to the original presentation slide;

and

storing the translated presentation slide in a translated slide database for the second language.

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19. The method as described in claim 18 further comprising before said new text file creation step, the step of examining links of an original presentation slide to determine if a translated slide for the particular language currently exists and retrieving an existing translated slide.

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20. A computer program product in a computer readable medium for translating text on a presentation slide from a first language to a second language comprising:

instructions for creating a text file, the text file having a format that can enable text be translated from one language to a second language using conventional file translation techniques;

instructions for inserting text and addressing information from an original presentation slide into the created text file;

instructions for translating the text inserted into the text file from a first language to a second language; and

instructions for creating a translated presentation slide containing the translated text from the text file and all of the information included in the original presentation slide.

21. The computer program product as described in claim 20 further comprising before said file creation instructions:

instructions for obtaining the original presentation slide for which translation is desired;

instructions for obtaining the translation language for the presentation slide; and

instructions for retrieving the text to be translated from the original presentation slide.

22. The computer program product as described in claim 21 wherein said text retrieving instructions comprise instructions for extracting the text from the original presentation slide.

23. The computer program product as described in claim 21 wherein said text retrieving instructions comprise instructions for copying the text from the original presentation slide.

24. The computer program product as described in claim 21 wherein said text retrieving instructions comprise:

instructions for searching the slide presentation for objects;

instructions for determining whether a found object is a text object; and

5 instructions for exporting the text from the found text object and the object's addressing information to the created text file.

25. The computer program product as described in claim 24 further comprising:

instructions for determining whether the found object is a group;

10 instructions for searching each sub-object in a determined group for text;

instructions for exporting the text from each sub-object found in the group; and

instructions for repeating said searching and exporting instructions for each sub-object determined to be in the determined group.

15 26. The computer program product as described in claim 24 wherein a slide searching instructions comprise instructions for searching a slide until the lowest level object on that slide is detected.

20 27. The computer program product as described in claim 20 wherein said translated presentation slide creation instructions comprise:

instructions for retrieving the translated text information from the new text file;

instructions for retrieving other slide presentation information from the original presentation slide; and

25 instructions for inserting the translated text information and the other presentation slide information into the created translated presentation slide such that the inserted information appears in the translated slide in the same configuration as in the original presentation slide.

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instructions for attaching a link from the new translated slide to the original

instructions for storing the translated presentation slide in a translated slide set for the second language.

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